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## **MEMORANDUM**

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**TO:** Lee Sim

**FROM:** Gertrudys B. Adkins *GA*

**DATE:** May 3, 2002

**SUBJECT:** Water Level Report for Pahvant Valley Wells

Enclosed, please find a graphical analysis of water levels patterns for selected monitoring wells in the Pahvant Valley and a map showing the locations of the selected wells. This report includes the most recent water levels taken by the USGS (March 2001 and 2002).

## **PAHVANT VALLEY WATER LEVEL PATTERN**

Water level measurements in selected Pahvant Valley wells have continued to decline. In my last report the water table in the majority of wells in the Pahvant Valley was showing some improvement. However, this improvement proved to be short lived as shown by the attached graphs.

The rate of decline in water levels for the years 2001-2002 has accelerated. Of the 13 wells in the study only two wells did not registered significant change in water levels. The greatest decline in water level of 12.09 ft was registered in well (C-20-4)4dab-1 from the year 2001 to 2002. This well is located about 1 mile West of Holden. Wells in the Southern boundary of the valley, near Kanosh, show the least decline in water levels. The average percentage decline was 8.20 percent.

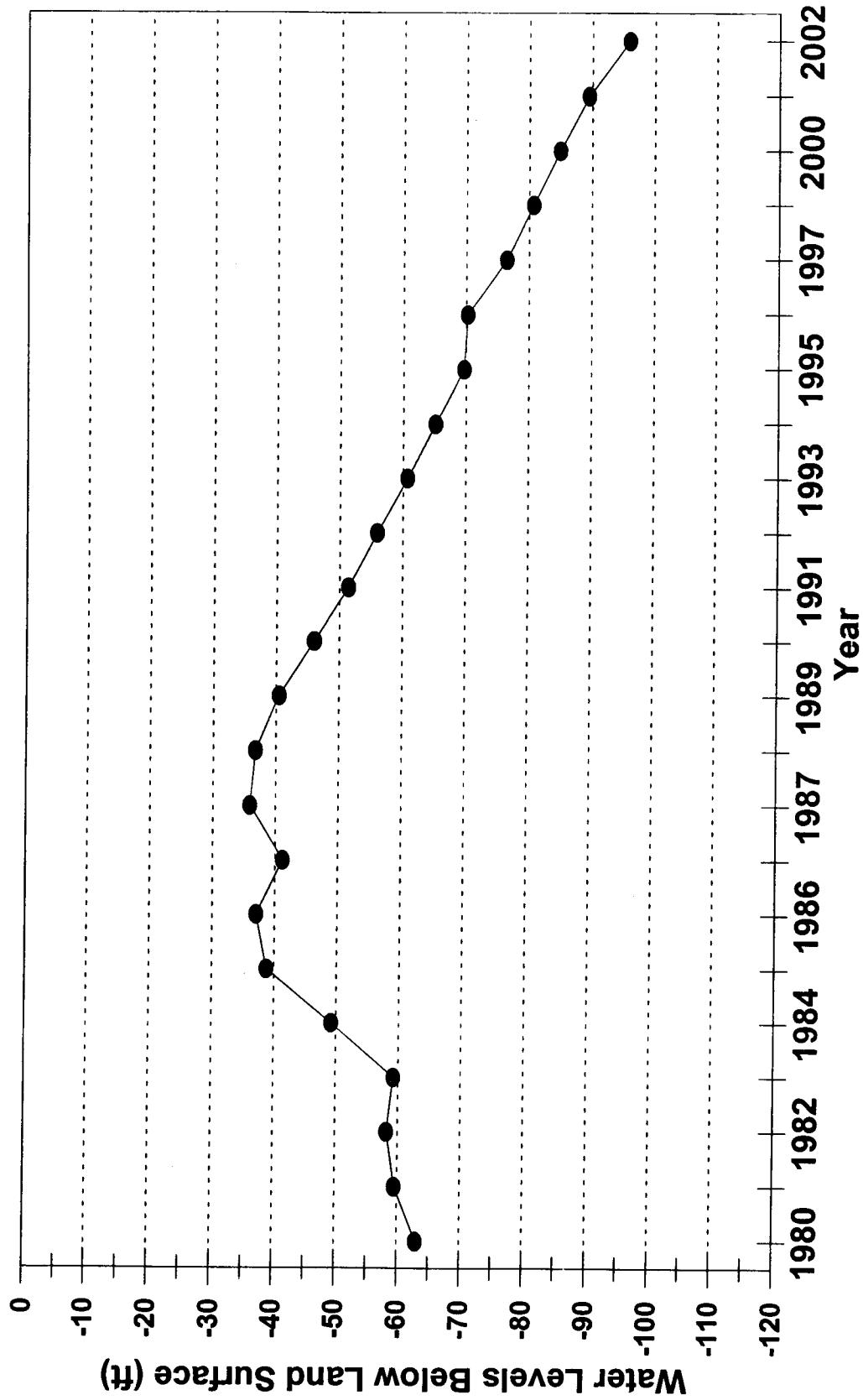
In summary, it appears that a rise or stabilization in the water table from the year 1995 to 2000 is not longer the case. The water level trend is clearly declining again. The decline in water levels in most wells has negated what it was gained during the 1999-2000 period.

I would like to suggest that we get together to discuss what course of actions should be taken to alleviate the deteriorating groundwater levels in the Pahvant Valley.

Well #	Water Level Decline over Previous Year (ft)	Average ft/yr Decline in Water Table	Percent Water Level decline (%) 2001-2002
4	6.48	1.57	7.23
14	2.27	0.29	2.98
10	9.56	5.10	5.46
18	12.09	0.36	13.41
20	3.73	0.27	7.23
26	1.34	0.30	1.99
31	3.85	0.44	40.15
37	1.08	0.04	2.26
40	2.89	0.26	5.93
58	9.53	0.38	15.61
78	5.73	1.24	5.11
81	Increase 0.53	1.17	Increase 1.3
87	0.32	0.82	0.54

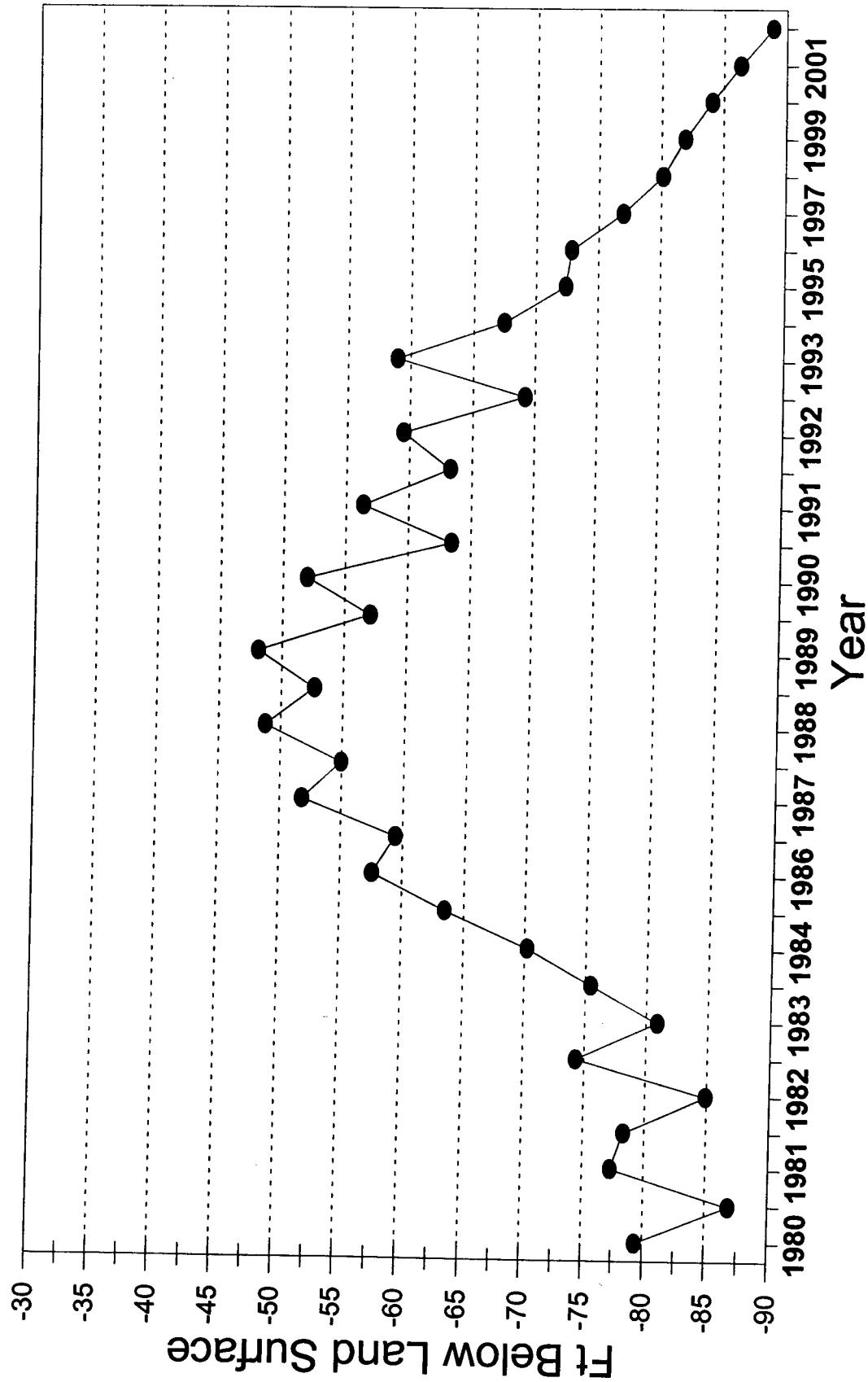
# Pahvant Valley Ground Water Levels

Well (C-18-5)28dd1 - #4



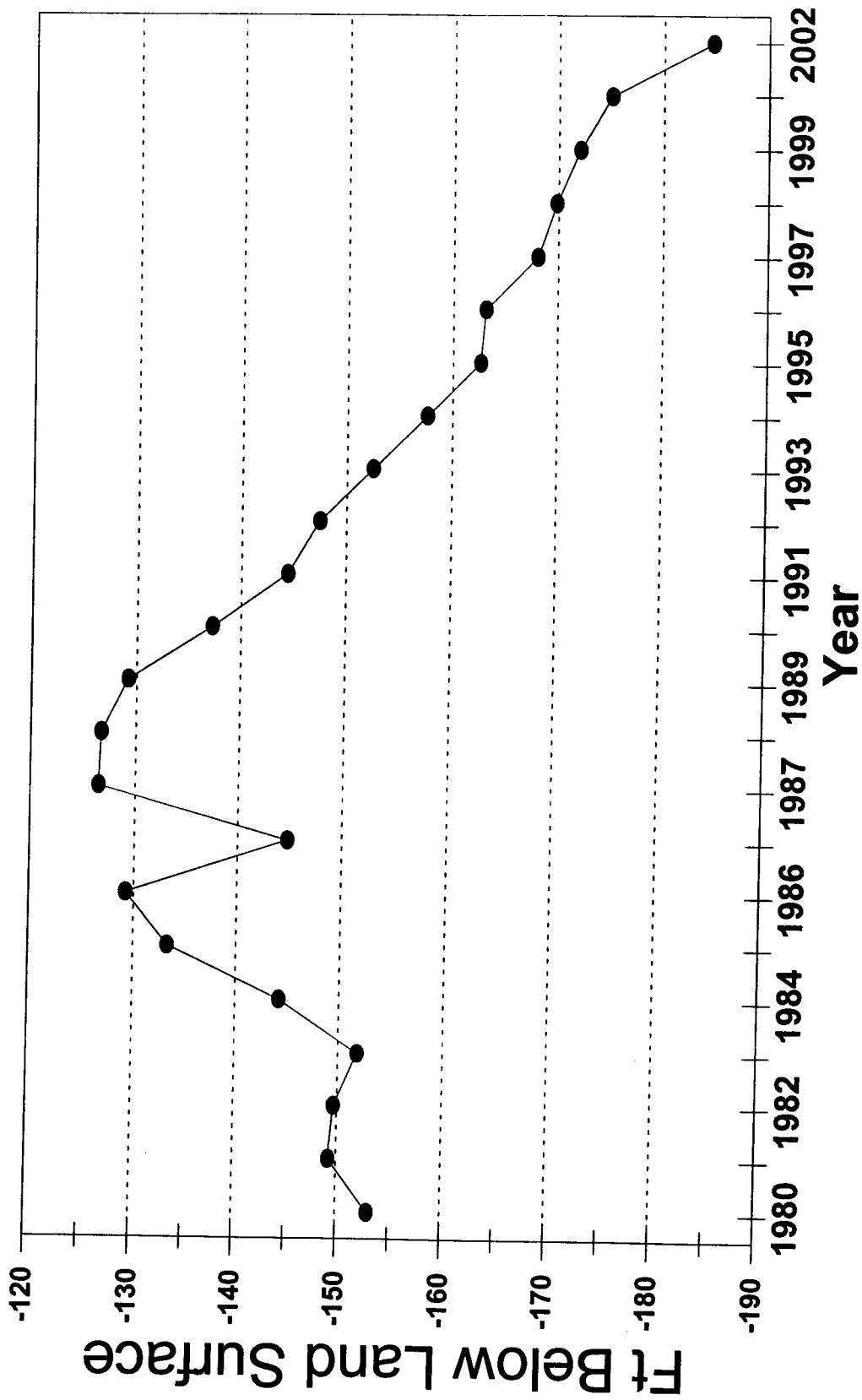
# Pahvant Valley Ground Water Levels

Well (C-19-5)2aad-1 - #14



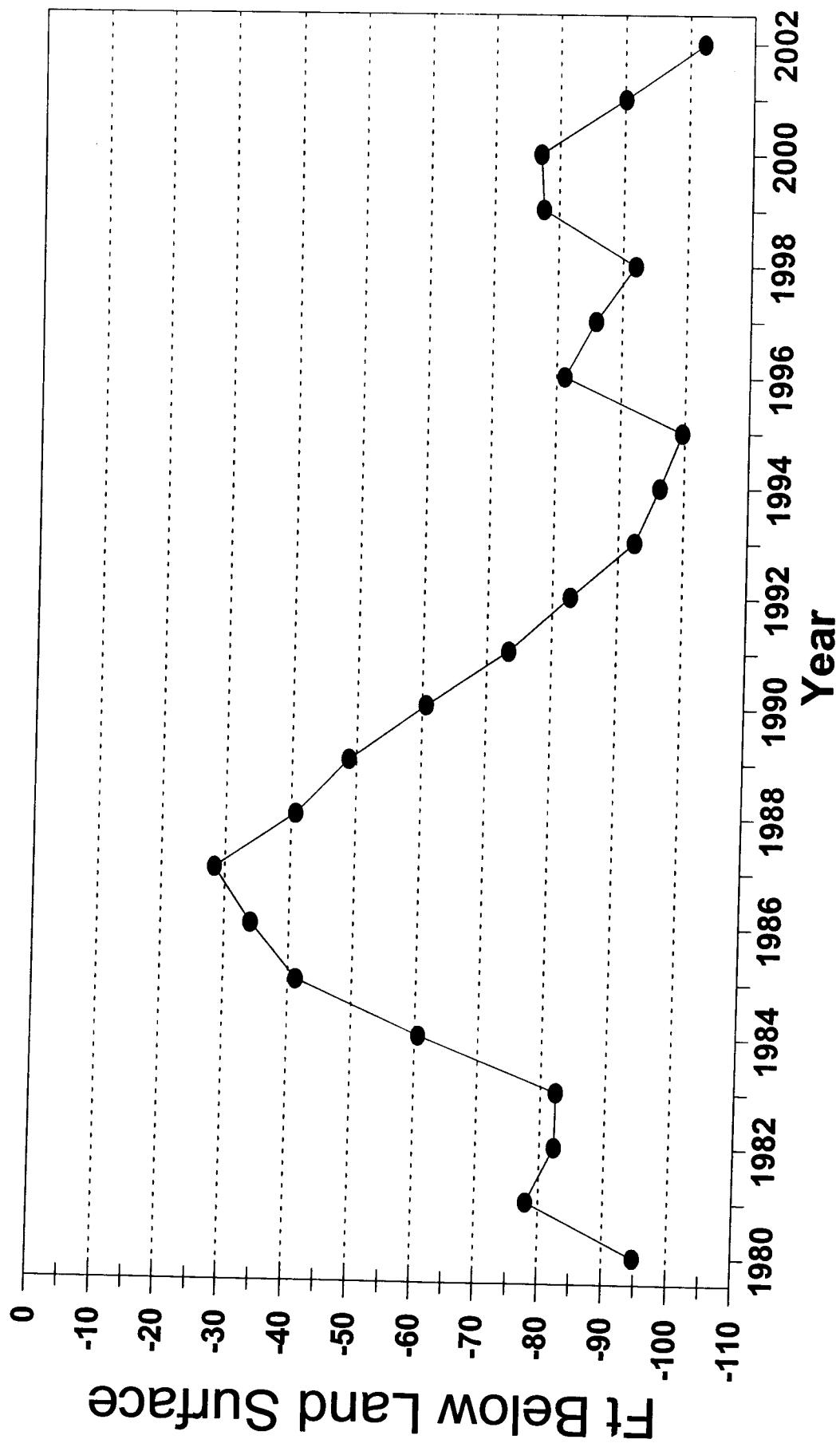
# Pahvant Valley Ground Water Levels

## Well (C-19-4)30dab-1 #10



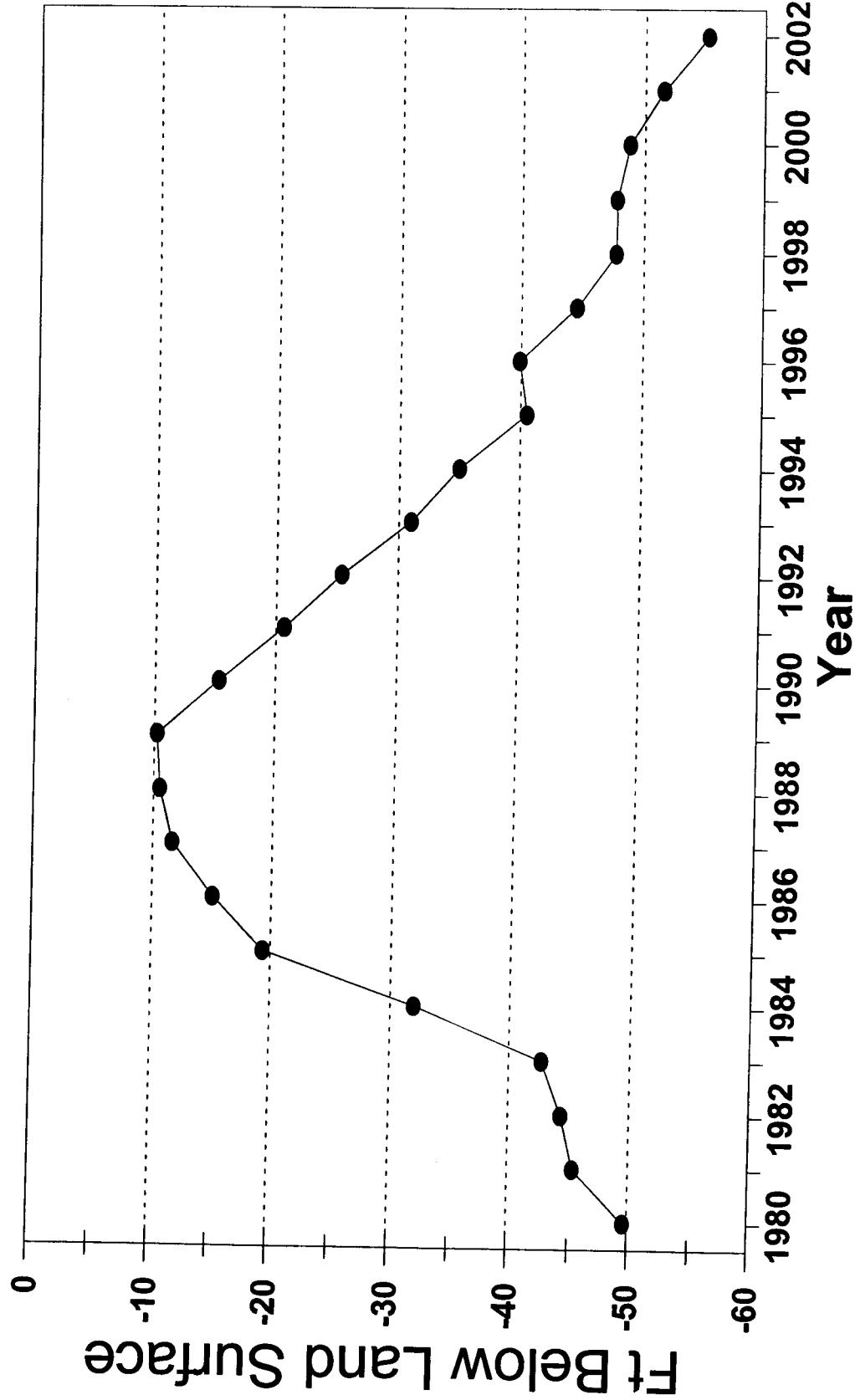
# Pahvant Valley Ground Water Levels

## Well (C-20-4)4dab-1 #18



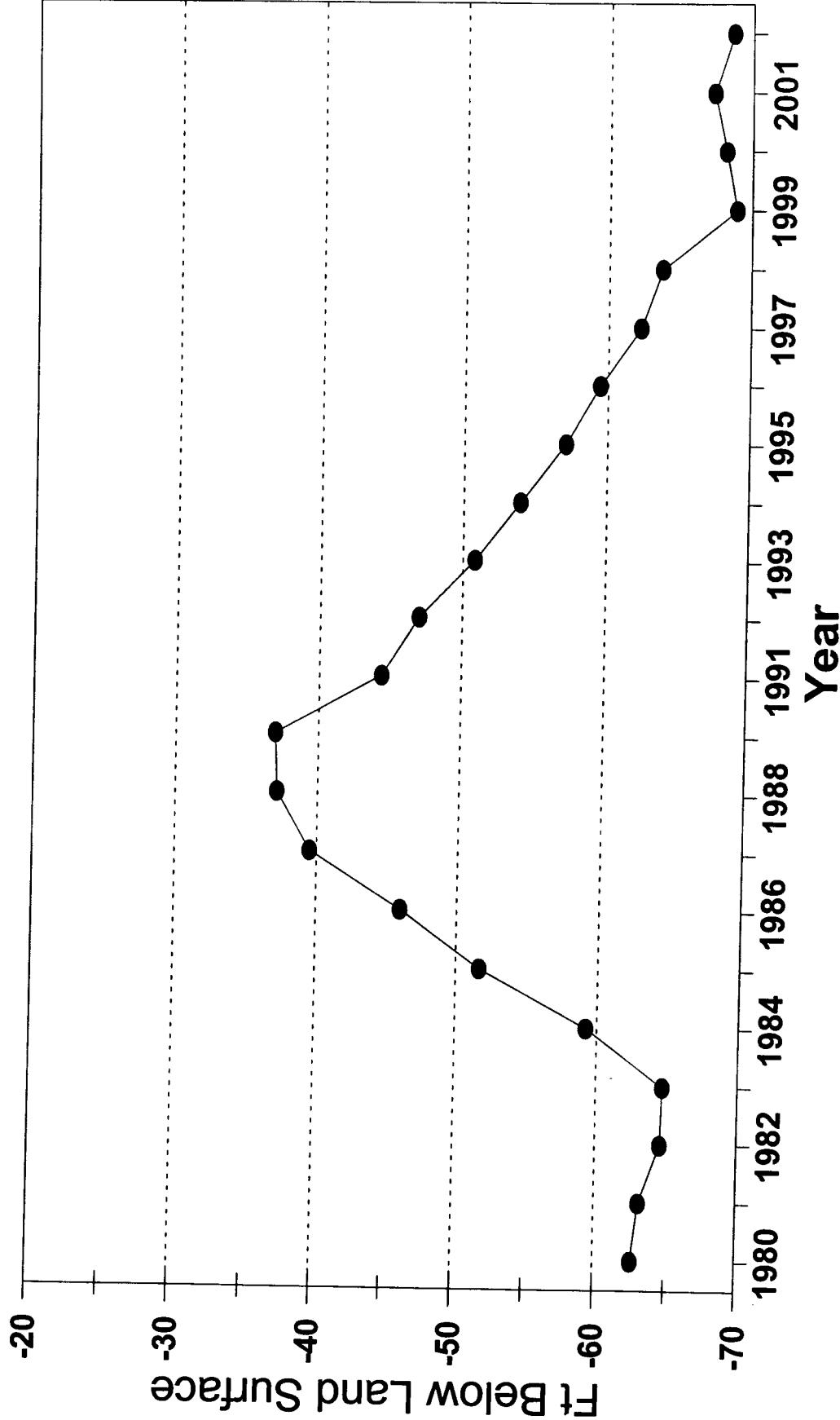
# Pahvant Valley Ground Water Levels

Well (C-20-4)6dbc-1 #20



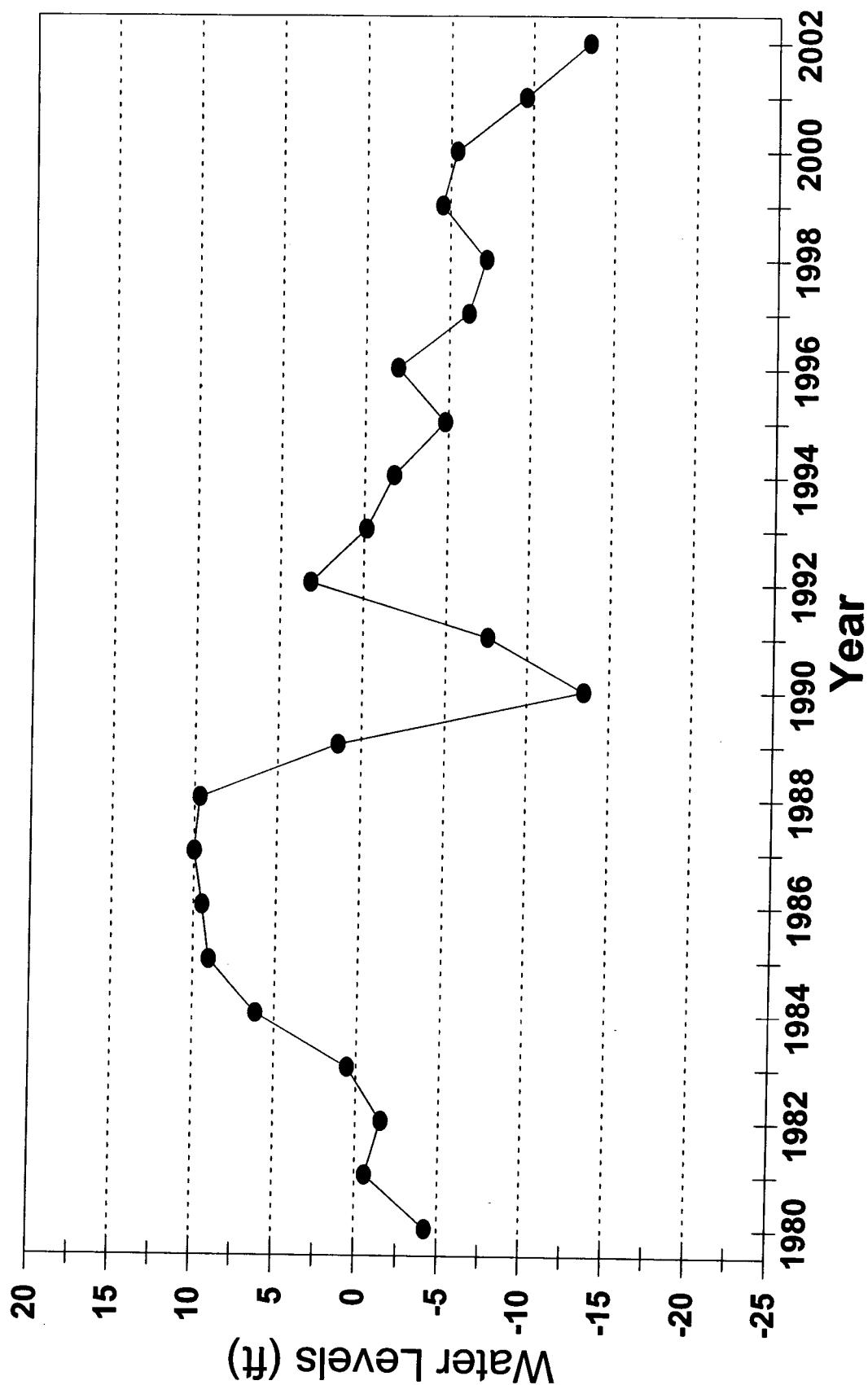
# Pahvant Valley Ground Water Levels

Well (C-20-5)24bad-2 #26



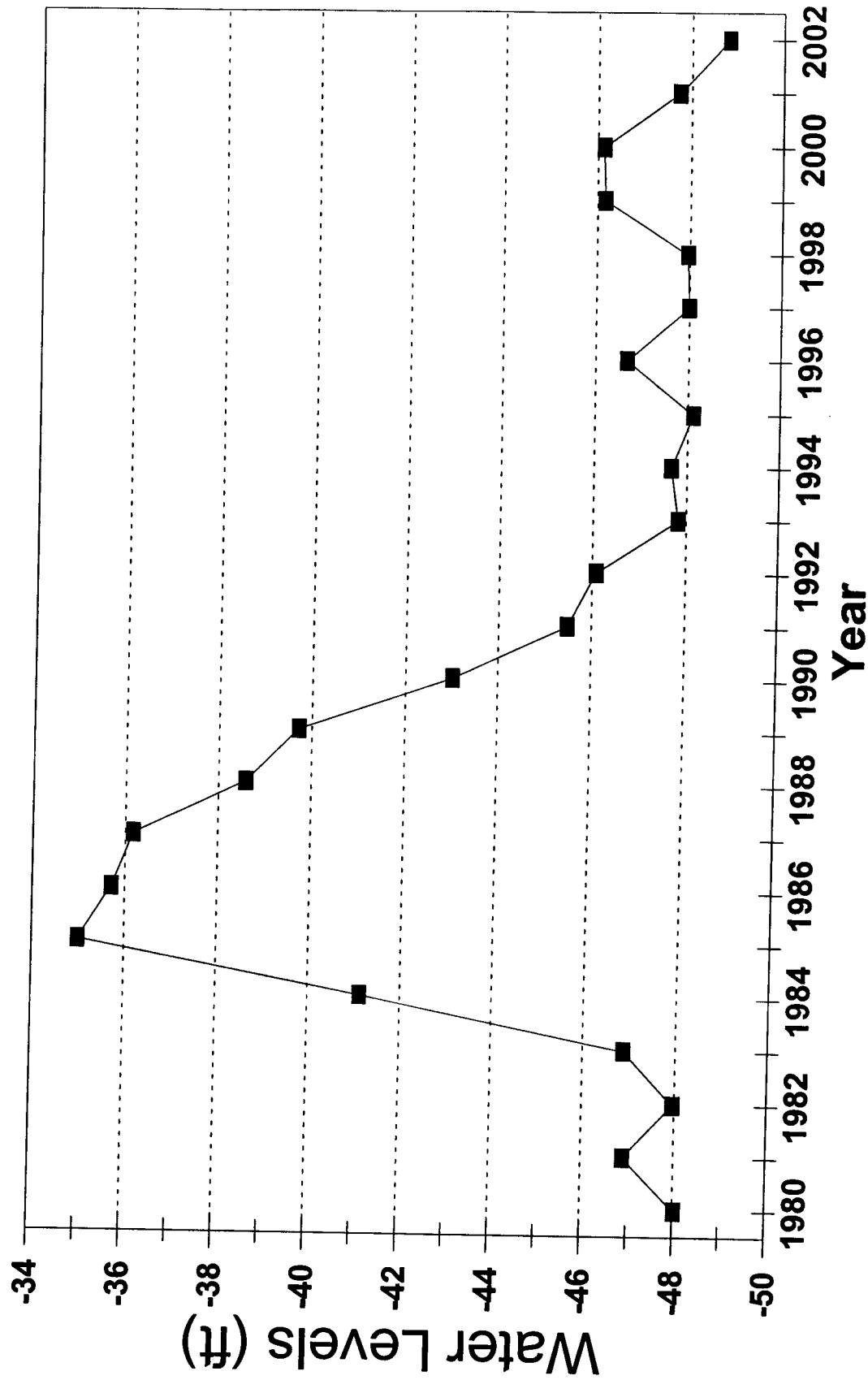
# Pahvant Valley Ground Water Levels

## Well (C-20-5)28cdd-1 #31



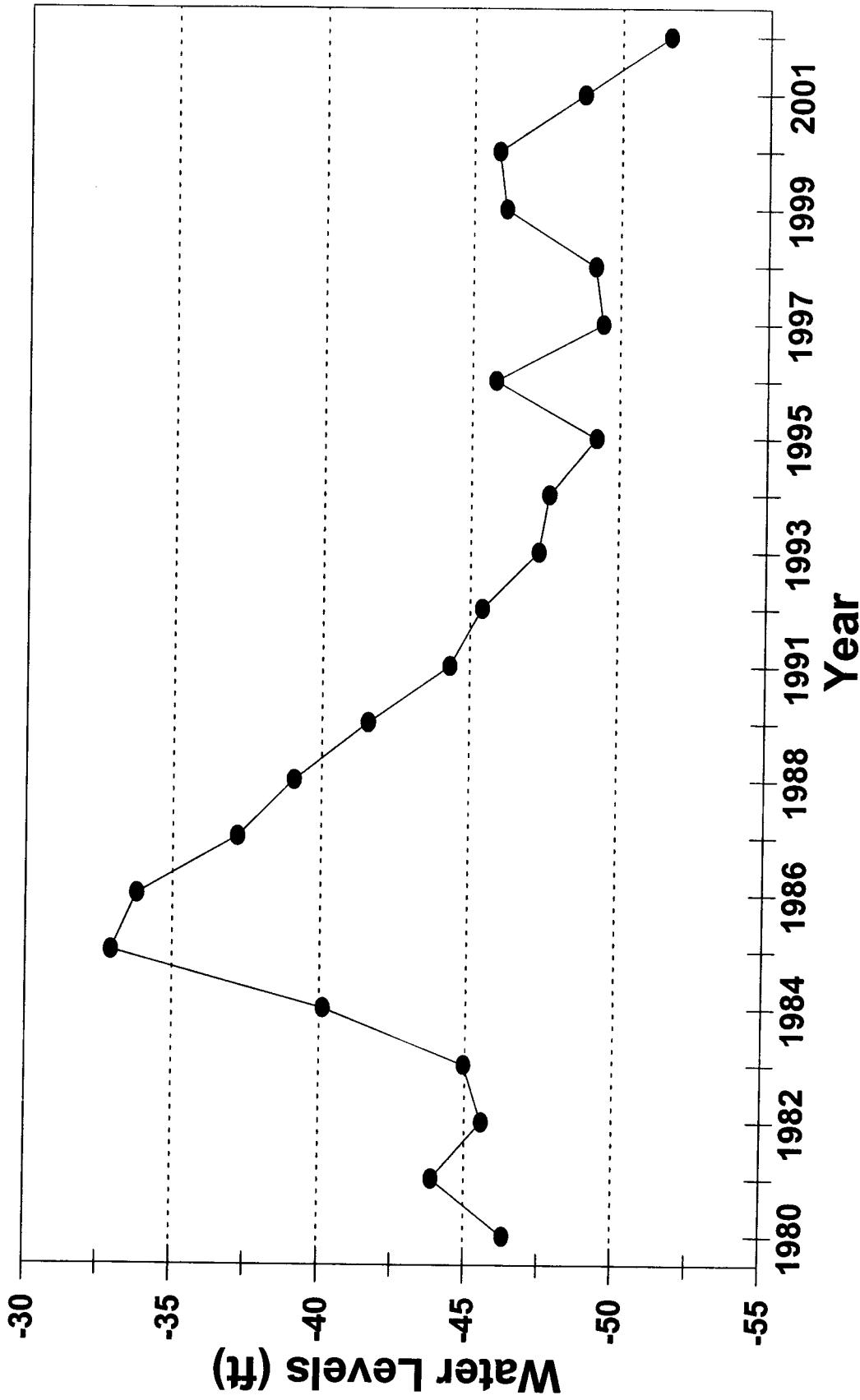
# Pahvant Valley Ground Water Levels

Well (C-21-5)7cdd-3 #37



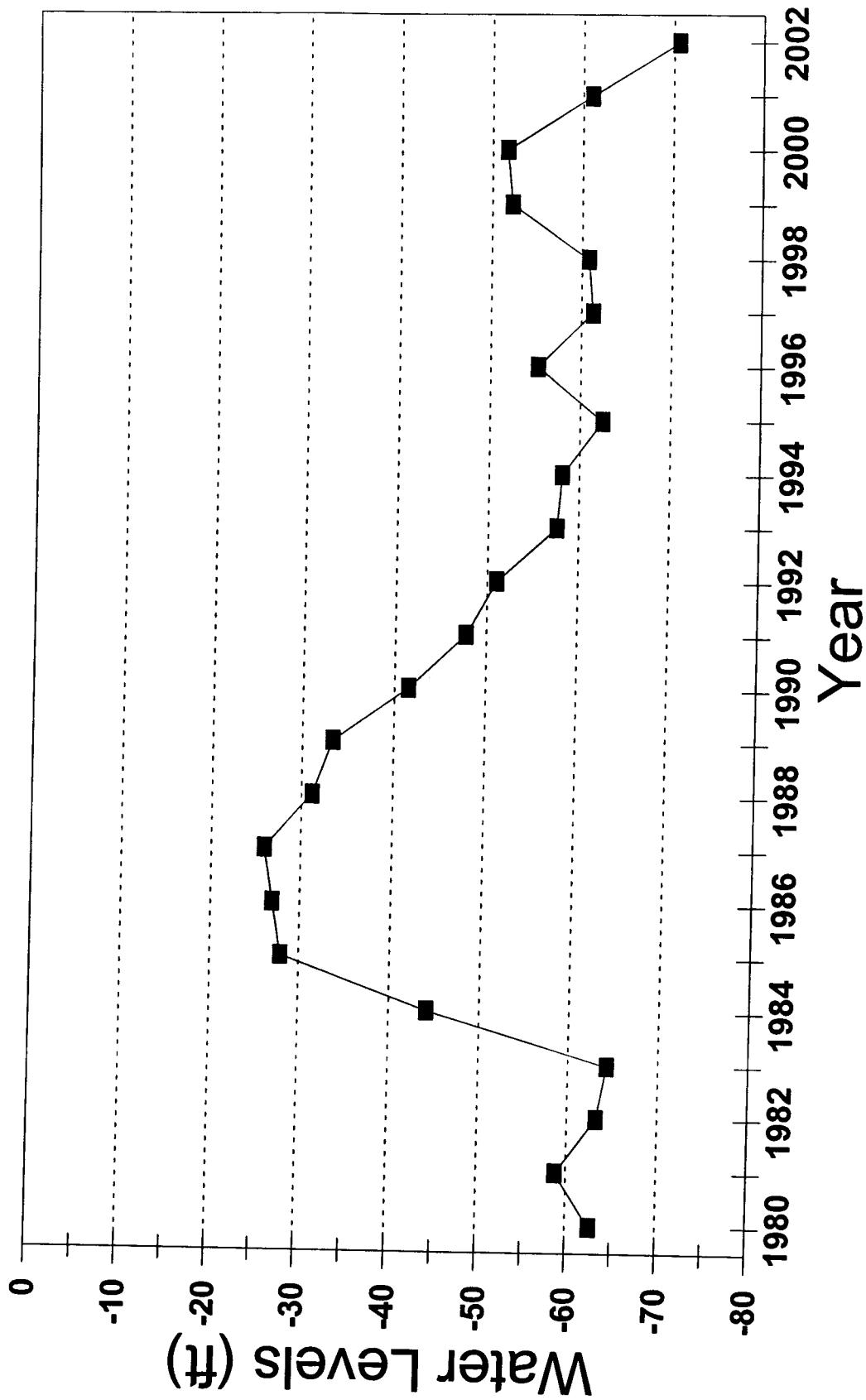
# Pahvant Valley Ground Water Levels

## Well (C-21-5)8dbb-2 #40



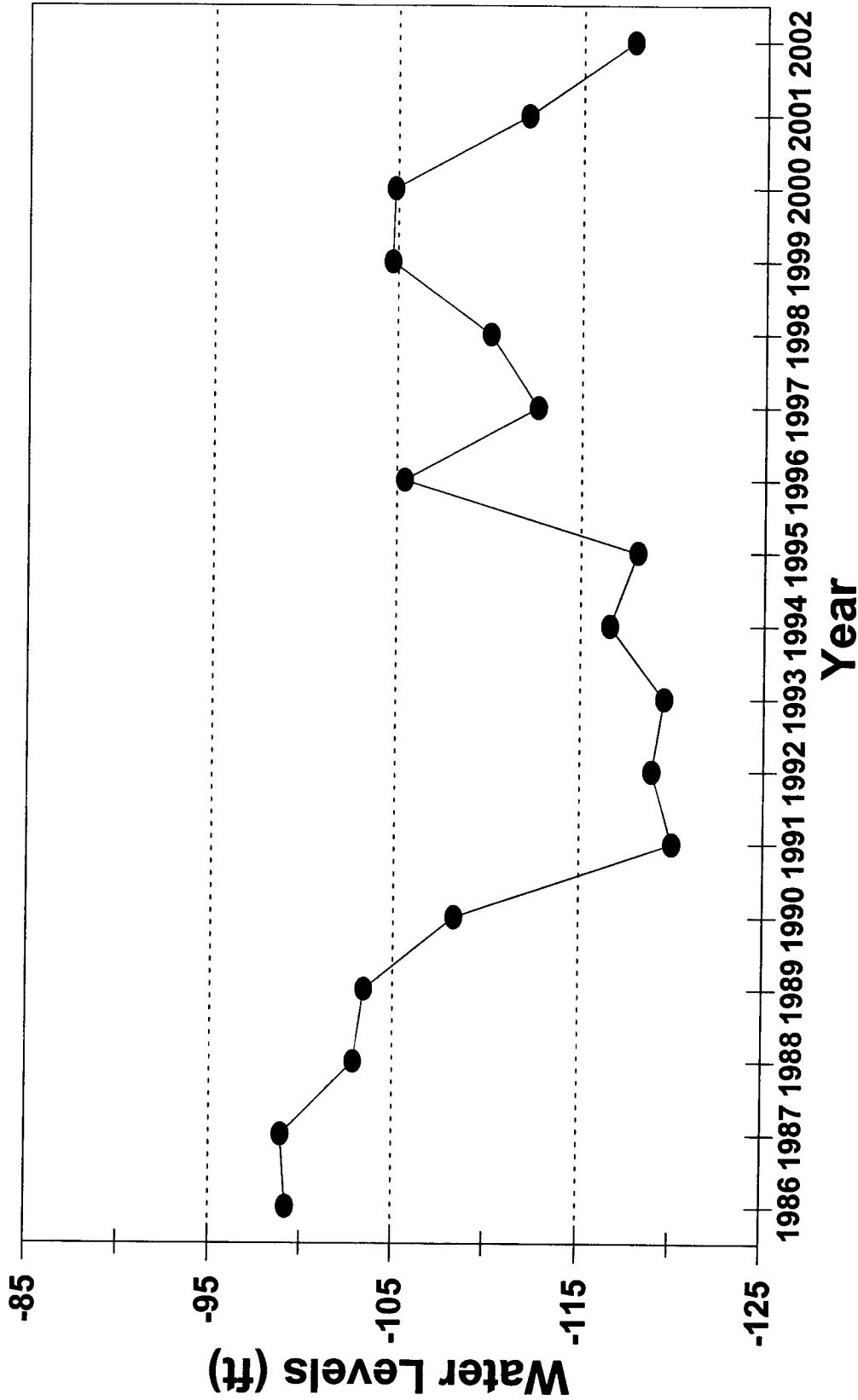
# Pahvant Valley Ground Water Levels

Well (C-22-5)28dbd-1 #58



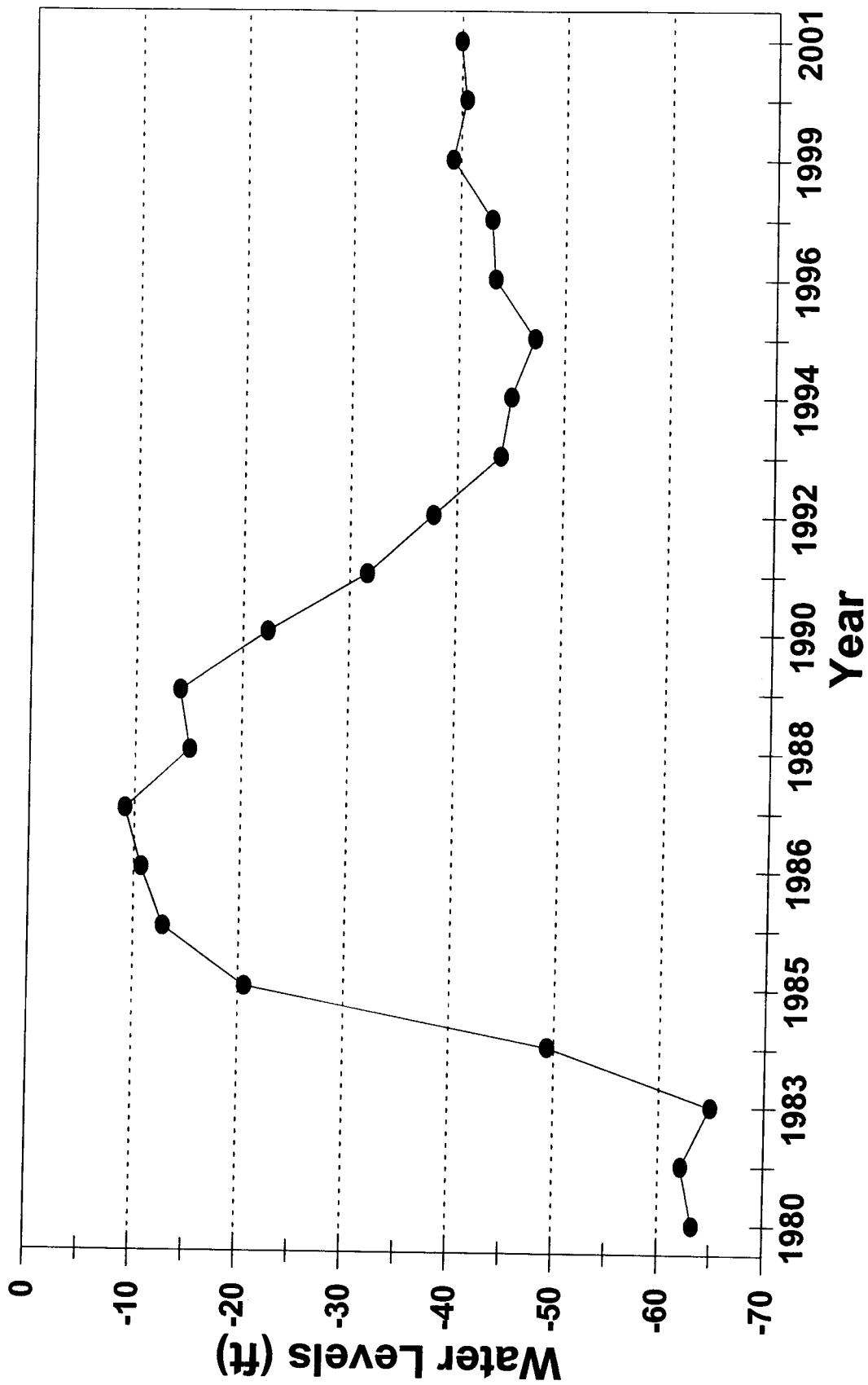
# Pahvant Valley Ground Water Levels

Well (C-23-6)13ddd-1 #78



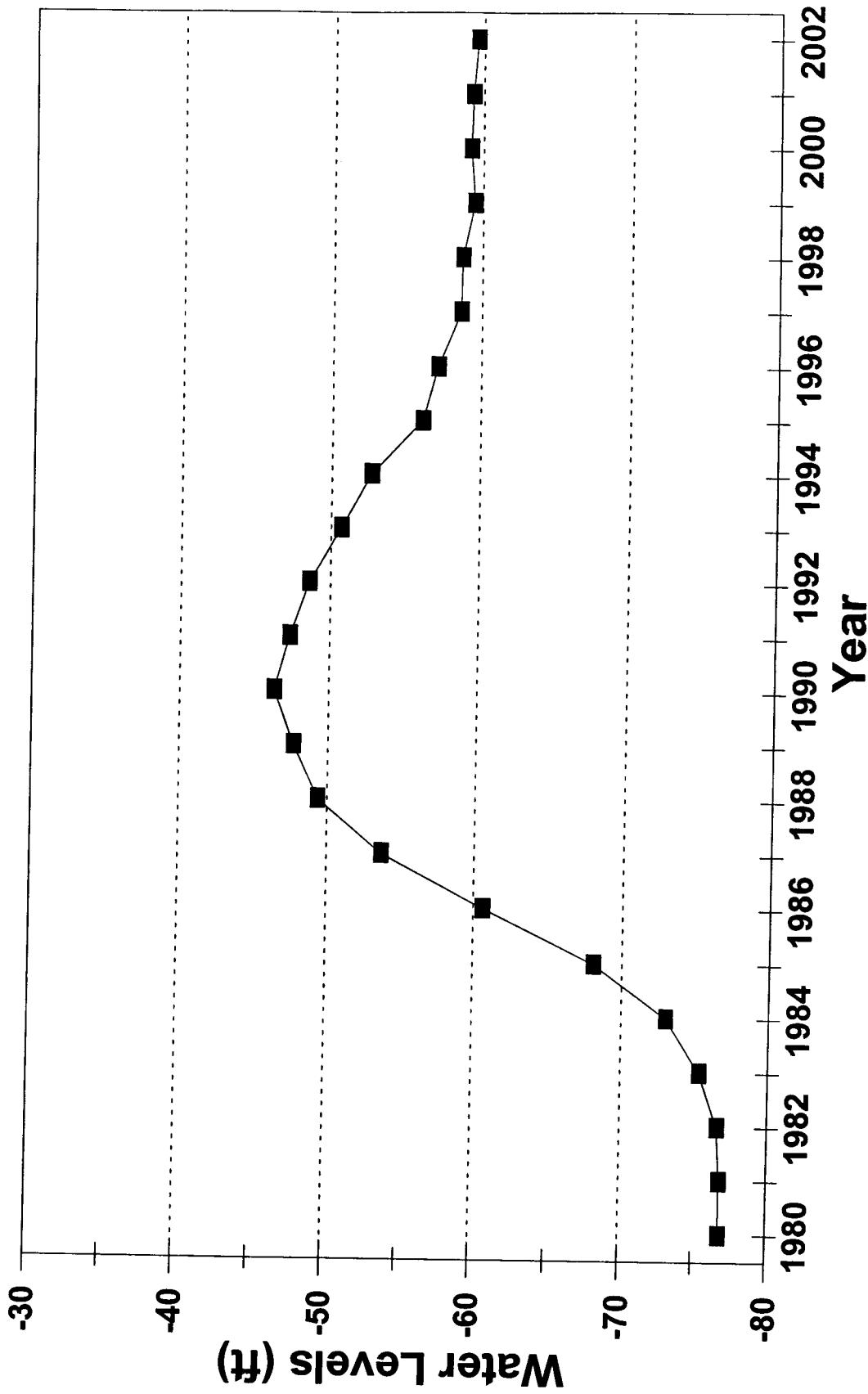
# Pahvant Valley Ground Water Levels

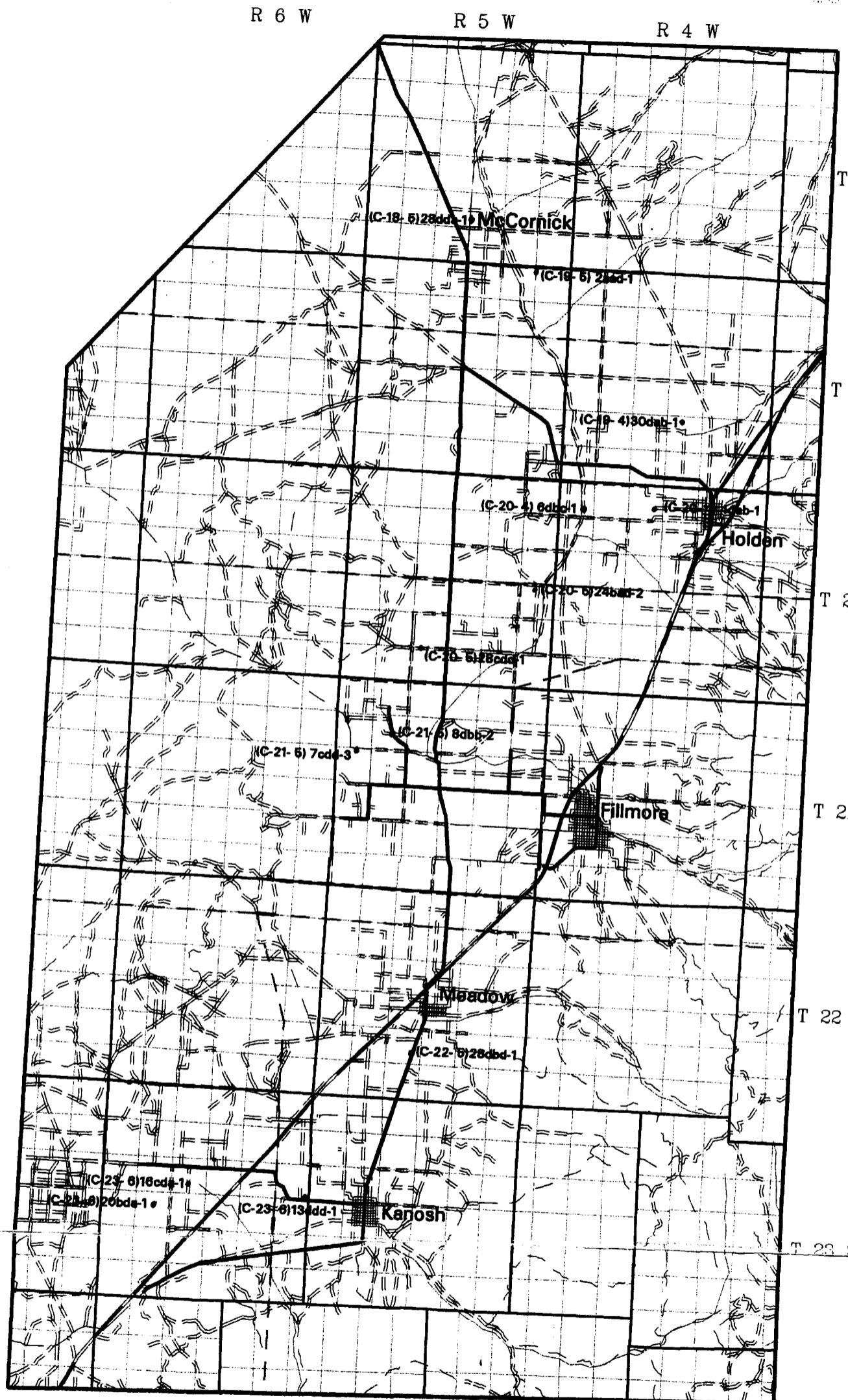
## Well (C-23-6)16cda-1 #81



# Pahvant Valley Ground Water Levels

## Well (C-23-6)20bda-1 #87





**Location of USGS Monitoring Wells**  
**Pahvant Valley, Utah**  
01-21-98